QC ABSTRACT

NAME OF WORK: Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M15)	Compressive Strength(7days and 28days)	2 set /16-30 cum	30.45	4	4
8	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2022-12-31-36** **Date: 20-12-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	19-12-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	225	225	2.0	98.0	95-100
22.4	2585	2810	25.5	74.5	60-80
11.2	2245	5055	46.0	54.0	40-60
4.75	2189	7244	65.9	34.1	25-40
2.36	1525	8769	79.7	20.3	15-30
0.6	1225	9994	90.9	9.1	8-22
0.075	638	10632	96.7	3.3	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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Assistant Executive Engineer
Kodigehalli Sub Division

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2022-12-31-36**	**Date: 20-12-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli	
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32	
Customer Reference	:	BBMP/EE/BTP/WO/68/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-12-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	19-12-22	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.5	298.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	78.5	74.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	219.4	223.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.5
5	Aggregate impact value	(B/A)*100	26.3	24.8
6	Aggregate impact value (Mean of two tests)	Pecentage	25.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2022-12-31-36** **Date: 20-12-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	19-12-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.2%	
Combined Flakiness and Elongation Index for WMM	22.0%	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-12-31-36** **Date: 17-11-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	15-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-12-31-36** **Date: 13-12-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	15-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-31-36** **Date: 17-11-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-11-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-31-36** **Date: 17-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-31-36** **Date: 17-11-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-31-36** **Date: 17-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-12-31-36** **Date: 17-11-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	14-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-12-31-36** **Date: 17-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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BBMP, Bangalore

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-12-31-36**	**Date: 22-11-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli	
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32	
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-11-22	
Sample Type /Size	:	Precast Cover Slab-100mm Thick	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	18/11/2022	
Grade of Slab	:	M15	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-12-31-36**	**Date: 22-11-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli	
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32	
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-11-22	
Sample Type /Size	:	Precast Cover Slab - 250mm Thick	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	18/11/2022	
Grade of Slab	:	M15	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.03	100.36	1.119	7857	140.5	17.9	16.6	20.8
2	Cover Slab-2	100.02	100.54	1.128	7856	145.5	18.5	17.2	21.5
3	Cover Slab-3	100.04	100.69	1.163	7859	140.5	17.9	16.6	20.8

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-12-31-36** **Date: 26/11/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli

Agency : Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/68/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-22

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	19/11/2022	26/11/2022	151.57 X 151.84 X 150.34	23014	8.262	288.6	12.5	12.7
2	Coping Concrete	M15	19/11/2022	26/11/2022	151.40 X 151.81 X 150.12	22985	8.559	289.7	12.6	
3	Coping Concrete	M15	19/11/2022	26/11/2022	150.22 X 149.56 X 150.52	22468	8.227	289.0	12.9	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-12-31-36** **Date: 17/12/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli

Agency : Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/68/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-22

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Coping Concrete	M15	19/11/2022	17/12/2022	149.15 X 150.02 X 149.61	22375	8.102	390.6	17.5	17.4
2	Coping Concrete	M15	19/11/2022	17/12/2022	150.08 X 149.51 X 151.09	22438	8.358	388.8	17.3	
3	Coping Concrete	M15	19/11/2022	17/12/2022	151.06 X 149.88 X 149.59	22640	8.198	394.8	17.4	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-12-31-36** **Date: 26/11/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli

Agency : Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/68/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-22

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Coping Concrete	M15	19/11/2022	26/11/2022	151.06 X 149.44 X 150.73	22574	8.462	283.3	12.5	12.8
2	Coping Concrete	M15	19/11/2022	26/11/2022	149.63 X 150.54 X 151.52	22526	8.302	292.6	13.0	
3	Coping Concrete	M15	19/11/2022	26/11/2022	150.09 X 151.84 X 149.94	22790	8.919	293.0	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-12-31-36** **Date: 17/12/2022**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Remodelling of Secondary drain on 3rd cross Bhadrappa layout in Ward No.08 Kodigehalli
Agency	:	Sri.U Ramesh, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P), Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/68/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Customer ID	:	Coping Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Coping Concrete	M15	19/11/2022	17/12/2022	149.67 X 149.45 X 151.10	22368	8.658	393.4	17.6	17.3
2	Coping Concrete	M15	19/11/2022	17/12/2022	151.32 X 149.28 X 151.28	22589	8.609	389.1	17.2	
3	Coping Concrete	M15	19/11/2022	17/12/2022	151.85 X 151.86 X 150.21	23060	8.597	394.6	17.1	

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